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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/039,237	12/31/2001	Tameka Spence	KCC 4782 (K.C. No. 17,029	7293
321	7590 02/06/2004		EXAMINER	
	R POWERS LEAVITT	HALPER	HALPERN, MARK	
ONE METROPOLITAN SQUARE 16TH FLOOR		ART UNIT	PAPER NUMBER	
ST LOUIS,	MO 63102		1731	
			DATE MAILED: 02/06/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
	10/039,237	SPENCE ET AL.			
Office Action Summary	Examiner	Art Unit			
	Mark Halpern	1731			
The MAILING DATE of this communication appeared for Reply	pears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b). Status	136(a). In no event, however, may a reply be to ly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	mely filed ys will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).			
1) Responsive to communication(s) filed on 06 N	lovember 2003.				
2a) This action is FINAL . 2b) This action is non-final.					
3) Since this application is in condition for allowated closed in accordance with the practice under the second se	·				
Disposition of Claims					
4)⊠ Claim(s) <u>1,3-7,9-20 and 23-25</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) <u>1,3-7,9-20 and 23-25</u> is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o					
Application Papers	·				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	cepted or b) objected to by the drawing(s) be held in abeyance. Setion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. §§ 119 and 120					
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list	ts have been received. Its have been received in Applicate the strict of the certified copies not received in the certification of the specification of the specification of the certification in the covisional application has been received in the certification of the certification of the certification in t	ion No ed in this National Stage ed. e)-(to-a-provisional-application)—- r in an Application Data Sheet. ceived. and/or 121 since a specific			
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	· =	(PTO-413) Paper No(s) Patent Application (PTO-152)			

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DETAILED ACTION

1) Acknowledgement is made of Response received 11/6/2003.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2) Claims 1, 3-4, 7, 9-14, 17-20, are rejected under 35 U.S.C. 103(a) as being unpatentable over Taylor (2,935,437) in view of Sisson (3,303,576).

Claims 1, 3-4, 12-14: Taylor discloses a method wherein paper stock pulp is deposited over a wire of Fourdrinier machine to form a paper web. The formed web is then dewatered and dried (Taylor, col. 2, lines 15-20, and col. 4, lines 54-59). Sodium bicarbonate is added to the furnish for pH control prior to depositing of the stock onto the forming wire. The pH range is from 4 to about 9.2 (Taylor, col. 2, lines 20-55). Taylor discloses that the formed web is treated according to conventional procedure, i.e. it is dried (Taylor, col. 4, lines 55-60), but fails to disclose that the web is dried by passing heated air through said web. Sisson discloses process of drying of paper web 11 carried on a Fourdrinier wire 12 and then on fabric carrier 16 into dryer where air the web is dried by passing air through said web (Sisson, col. 3, line 4 to col. 4, line 40, and Figure 1). It would have been obvious, to one skilled in the art at the time the invention

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was made, to combine the teachings of Taylor and Sisson, because such a combination would provide for improved drying of the web of Taylor as disclosed by Sisson (col. 1, lines 54-72).

Claims 7, 9-10, 17-19: the temperature of heated air is disclosed to be as high as 700 °F, or 371 °C (Sisson, col. 2, lines 1-5).

Claim 11: the paper stock may be made of broke, cuttings, scraps of paper (col. 2, lines 17-26) and rag fiber (col. 7, line 65).

Claim 20: the paper stock may be made of broke, cuttings, scraps of paper (col. 2, lines 17-26) and rag fiber (col. 7, line 65).

an aqueous suspension of 1.5 liter of water containing 20 grams of paper (Example 1, col. 5-6, Table 1, sub-line (b), and Example 7, col. 7, line 58 to col. 8, line 3). The Espy percentage of sodium bicarbonate in an aqueous suspension calculates to 18 %. It would have been obvious, to one skilled in the art at the time the invention was made, to combine the teachings of Taylor and Sisson with Espy (Abstract).

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4) Claims 1, 3-7, 9-20, 23-25, are rejected under 35 U.S.C. 103(a) as being unpatentable over Espy (5,6744,358) in view of Sisson (3,303,576).

Claims 1, 5-6, 12, 15-16, 23-25: Espy discloses a process of repulping paper wherein 3.60 grams of sodium bicarbonate is introduced into an aqueous suspension of 1.5 liter of water containing 20 grams of paper (Example 1, col. 5-6, Table 1, sub-line (b), and Example 7, col. 7, line 58 to col. 8, line 3). The Espy percentage of sodium bicarbonate in an aqueous suspension calculates to 18 %. The aqueous suspension is then formed into web sheets following standard procedures (col. 4, lines 38-68). Espy discloses that the formed web is dried, but fails to disclose that the web is dried by passing heated air through said web. Sisson discloses process of drying of paper web 11 carried on a Fourdrinier wire 12 and then on fabric carrier 16 into dryer where air the web is dried by passing air through said web (Sisson, col. 3, line 4 to col. 4, line 40, and Figure 1). It would have been obvious, to one skilled in the art at the time the invention was made, to combine the teachings of Espy and Sisson, because such a combination would provide for improved drying of the web of Espy as disclosed by Sisson (col. 1, lines 54-72).

Claims 3-4, 13-14: the pH of the aqueous suspension after sodium bicarbonate addition ranges from 7 to 12 (col. 2, lines 45-49).

Claims 7, 9-10, 17-19: the temperature of heated air is disclosed to be as high as 700 °F, or 371 °C (Sisson, col. 2, lines 1-5).

Claims 11, 20: Espy discloses paper and paperboard waste materials (broke), which are secondary cellulosic fibers (col. 1, lines 23-24).

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Response to Amendment

- 5) Claims 1, 3-4, 7, 9-14, 17-20, rejection under 35 U.S.C. 103(a) as being unpatentable over Taylor (2,935,437) in view of Shannon (6,488,812), is withdrawn in view of further search of art in prior art.
- 6) Claims 5-6, 15-16, 23-25, rejection under 35 U.S.C. 103(a) as being unpatentable over Taylor in view of Shannon, and further in view of Espy (5,674,358), is withdrawn in view of further search of art in prior art.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Halpern whose telephone number is 571-272-1190. The examiner can normally be reached on Mon-Fri, (9:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Griffin can be reached on 571-272-1190. The fax phone numbers for the organization where this application or proceeding is assigned is 703-872-9309.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0651.

Mark Halpern () ─Patent-Examiner Art Unit 1731